

Title (en)

VOICE AWAKENING METHOD AND APPARATUS, AND DEVICE AND MEDIUM

Title (de)

SPRACHAUFWECKVERFAHREN UND -EINRICHTUNG UND VORRICHTUNG UND MEDIUM

Title (fr)

PROCÉDÉ ET APPAREIL DE RÉVEIL VOCAL, ET DISPOSITIF ET SUPPORT

Publication

EP 3926624 A4 20220420 (EN)

Application

EP 20777736 A 20200326

Priority

- CN 201910243897 A 20190328
- CN 2020081341 W 20200326

Abstract (en)

[origin: EP3926624A1] A voice awakening method and apparatus, a device, and a medium are provided. The voice awakening method includes: collecting a voice signal by using a microphone array (S201); separately performing denoising processing on the voice signal by using N beamforming denoising algorithms to obtain N denoising signals, where each beamforming denoising algorithm corresponds to one of N areas, different beamforming denoising algorithms correspond to different areas, a union set of the N areas covers a signal collection area of the microphone array, and N is a positive integer greater than 1 (S202); and performing voice awakening by using an awakening engine based on at least one of the N denoising signals (S203). The method can maximize denoising performance of the denoising algorithms and can cancel an echo outside a beam to enhance echo cancellation performance, featuring a relatively high awakening rate and recognition rate. In addition, the method is easy to implement and popularize.

IPC 8 full level

G10L 15/22 (2006.01); **G10L 21/0216** (2013.01); **G10L 15/08** (2006.01)

CPC (source: EP US)

G10L 15/22 (2013.01 - EP); **G10L 21/0216** (2013.01 - EP US); **G10L 25/51** (2013.01 - US); **G10L 2015/088** (2013.01 - EP); **G10L 2015/223** (2013.01 - EP); **G10L 2021/02166** (2013.01 - EP US)

Citation (search report)

- [X1] US 2019080692 A1 20190314 - R RAGHAVENDRA RAO [IN], et al
- [X1] US 2019073999 A1 20190307 - PRÉMONT JULIEN [DE], et al
- [X1] US 2018033428 A1 20180201 - KIM LAE-HOON [US], et al
- See also references of WO 2020192721A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3926624 A1 20211222; **EP 3926624 A4 20220420**; **EP 3926624 B1 20240522**; CN 109949810 A 20190628; CN 109949810 B 20210907; US 2023031491 A1 20230202; WO 2020192721 A1 20201001

DOCDB simple family (application)

EP 20777736 A 20200326; CN 201910243897 A 20190328; CN 2020081341 W 20200326; US 202017598702 A 20200326